TRR Entrance Criteria

1. Test Readiness Review Planning
   - 1.1. Have required Board Chairperson/s and review participants been selected?
     - 1.1.1. Are the proper subject matter experts from both the program and competency identified?
   - 1.2. Have all applicable previous technical review exit criteria and key issues been satisfied in accordance with an agreed to plan?
     - 1.2.1. Has the CDR been successfully completed?
     - 1.2.2. Have all applicable CDR action items been satisfactorily completed?
     - 1.2.3. Have all applicable CDR exit criteria been satisfied?
   - 1.3. Have TRR entry criteria been satisfactorily completed or agreed to?
     - 1.3.1. Has the configuration of the system under test been defined and agreed to, including interface requirements? Has a Version Description Document been provided?
     - 1.3.2. Have all functional, unit level, subsystem, system, and qualification testing required to support the planned tests been satisfactorily completed?
     - 1.3.3. Have all applicable test plans, test cases, and test procedures been made available for participants to review?
     - 1.3.4. Have all known discrepancies been identified and dispositioned in accordance with an agreed to plan?
     - 1.3.5. Have all applicable previous design review exit criteria and key issues been satisfied in accordance with an agreed to plan?
     - 1.3.6. Have all required resources (people, facilities, test articles, test instrumentation) been identified and coordinated to support the planned tests?
     - 1.3.7. Have roles and responsibilities of all test participants been defined and agreed to?
2. Logistics
   - 2.1. For all logistics elements, is the particular logistics product in a state appropriate for this evolution of testing?
     - 2.1.1. If not, what are the limitations and how will they affect testing?
   - 2.2. If facilities are required, are they available, along with the appropriate utilities?
   - 2.3. Is a repair capability available and funded?

2.4. Are spare parts available?

2.5. Does the testing organization know of any limitations that may affect the testing of the support structure?

3. Overall Program Overview

3.1. Has relationship of planned test program to overall program been demonstrated?

4. Test Program Schedule

4.1. Has the program identified how planned tests support overall program schedule? Are planned tests on program critical path?

4.2. Does the Test Program have an updated schedule with sufficient detail to support planned tests? Are any of the planned Test program tasks linked?

4.3. Is the test schedule reflective of available resources?

4.4. Does the test program schedule have an identified critical path and is that critical path consistent with technical risk of test program?

4.5. What is the status of planned test program versus with any identified test program Critical Path?

5. Test Program Staffing

5.1. Is there a complete organization structure shown and is the organization consistent with the technical challenges/risks of the test program?

5.2. Are key government / contractor interfaces identified and are these consistent with test program risks?

5.3. Is adequate staffing (required expertise and quantity of expertise for both the contractor and the government) available to execute the planned test? Is there confidence that all required flight clearance performance monitors are involved and do they concur with the test plan?

6. Test Plan/ Process Review

6.1. Purpose of the test. Why are we testing?

6.1.1. Does the planned test verify a requirement that is traceable to a system specification, Test & Evaluation Master Plan (TEMP), and/or Capability Development Document (CDD)/Operational Requirements Document (ORD) requirement?

6.2. Configuration of the system under test. What are we testing, subsystem, system, or systems of systems, other?

6.2.1. Is the system under test sufficiently mature, defined, and representative to accomplish test objectives and or support defined program objectives?

6.3. Has the program identified expected results and understand how the expected test results can/ may effect the program?

6.4. Scope of planned tests. Has the scope of tests been clearly defined?

6.5. Method of test. Has the test methodology been defined and agreed to? Verification methodology defined and agreed to?

6.6. Have all required test resources been identified, coordinated, and scheduled to support tests?

6.7. Has discrepancy identification and reporting system been defined and agreed to?

6.8. Has retest philosophy been defined and agreed to?

6.9. Has final reporting process/ format been defined and agreed to?

6.10. Does the TEMP address metrics and test procedures to ensure that Human Systems Integration (HSI) requirements for each domain are delivered and satisfy the Capability Production Document (CPD) requirements?

6.11. Does the TEMP address test procedures to ensure that networked, distributed combat force requirements are satisfied?

7. Management Metrics Relevant to Planned Test

7.1. Cost / Schedule / Performance. Is data current and does it reflect test program risks and technical results?

7.2. Earned Value Management (EVM)

7.2.1. Is the EVM data up-to-date?

7.2.2. Are the test program related work packages based on earned value vice level of effort?

7.2.3. Is the EVM data consistent with known technical risks and challenges in the test program?

7.2.4. Are the EVM data being used to adjust test program resources to address risk issues?

7.2.5. Have the metrics to track EVM been clearly articulated and have sufficient fidelity to understand the status of the test program?

7.3. Work Breakdown Structure (WBS) review

7.3.1. Is the WBS consistent with the technical risks of the test program?

7.3.2. Is the WBS broken down to an appropriately detailed level to address all technical tasks?

7.3.3. Are all CIs (including software), as identified in the detailed design, addressed in the WBS?

7.3.4. Are the requirements tracked, traced, and modeled using an automated tool?

8. Test Program Risk Assessment

8.1. Have all test related risks been identified and are they being tracked on a continuous basis including updates of the mitigation approaches?

8.2. Are mitigation approaches in place for all moderate and high test-related risks? Are test risk mitigations resourced?

8.3. Does program have an overall Risk Management Plan?

8.3.1. Is there a defined program level risk management process? Is the Risk Management Plan up to date and being used?

8.3.2. Is the risk management process shared by the government and contractor team?

8.3.3. Have all applicable test related risks been included in the program level risk management process?

8.3.4. Are the applicable test related risks being managed by the program Risk Management Board?

9. System Under Test Requirements

9.1. Is the relationship and traceability of planned tests to KPPs and other performance requirements, both explicit and derived, defined and understood?

9.2. Is the relationship and traceability of planned tests to mission requirements, derived mission phase requirements, and mission phase functionality defined and understood?

9.3. Is the relationship of planned tests to a determination of airworthiness defined and understood?

9.4. Are all required interfaces defined?

9.5. Is the relationship of planned tests to a determination of system Reliability and or Maintainability defined and understood?

9.6. Are there plans in place to ensure test requirements are addressed and documented to the same level of detail as functional requirements (operation and suitability)?

9.7. Are all applicable Electromagnetic Interference (EMI)/ Electromagnetic Compatibility (EMC) issues addressed?

9.8. Are all applicable networked, distributed combat force issues addressed?

9.9. Is the relationship of planned tests to a determination of system Survivability defined and understood?

9.10. Is the relationship of planned tests to a determination of system producibility defined and understood?

9.11. Have all applicable crew system/HSI issues been satisfactorily addressed?

9.12. Is the relationship of planned tests to a determination of system interoperability defined and understood?

9.13. Is the relationship of the planned tests to a determination of shipboard integration/ interface defined and understood?

10. For the system under test, have applicable test constraints been addressed?

10.1. Have all interface requirements been defined and understood?

10.2. Have test costs been defined and understood?

10.3. Has test schedule been defined and agreed to, particularly schedule for required resources?

10.4. Have all applicable test limitations been identified and the impact assessed and agreed to?

10.5. Is there adequate buy-in among the technical team as to risks and mitigation?

11. Completion/Exit Criteria

11.1. The TRR is considered complete when all draft Requests for Action (RFAs) are signed off, and an acceptable level of program risk is ascertained.

11.2. Were the proper buying activity competencies represented at the review? If applicable, were all required flight clearance performance monitors involved and do they concur with the planned test, expected test results?

11.3. Typical Exit Criteria include:

11.3.1. Are adequate test plans completed and approved for system under test?

11.3.2. Have all required test resources been identified and coordinated?

11.3.3. Is the test program properly staffed?

11.3.4. Have all previous applicable component, subsystem, and system level tests been completed to form a basis for proceeding into planned tests?

11.3.5. Have all of the Test Program Risks been identified and applicable mitigation plans approved or risks accepted as is by Program/ Competency leadership?

11.3.6. Is the test program executable within cost / schedule/ performance risks?

12. Have all applicable lessons learned been entered in or are planned to be entered into DCMA's Knowledge Management system?